

Title (en)  
Gear product

Title (de)  
Zahnrad erzeugnis

Title (fr)  
Roue dentée

Publication  
**EP 0552021 B1 19970611 (EN)**

Application  
**EP 93300192 A 19930113**

Priority  
JP 2481992 A 19920114

Abstract (en)  
[origin: EP0552021A1] A novel gear product (M1) includes plural gear members (13, 14) of different tooth profiles and configurations, which are manufactured integrally through a forging process. The forged gear product is compact, and strong, and includes a clutch spline member with clutch spline teeth (13) and a helical gear member with spiral teeth (14), which are integrally forged and continuously arranged in the axial direction to be adjacent to each other, preferably without any clearance therebetween. <IMAGE>

IPC 1-7  
**F16H 55/17**; **B21K 1/30**

IPC 8 full level  
**F16D 11/00** (2006.01); **B21K 1/30** (2006.01); **F16D 23/02** (2006.01); **F16H 55/17** (2006.01)

CPC (source: EP US)  
**B21K 1/30** (2013.01 - EP US); **B21K 1/305** (2013.01 - EP US); **F16D 23/025** (2013.01 - EP US); **F16H 55/17** (2013.01 - EP US);  
**F16D 2023/0656** (2013.01 - EP US); **F16H 55/171** (2013.01 - EP US); **Y10T 29/49474** (2015.01 - EP US); **Y10T 74/19856** (2015.01 - EP US)

Cited by  
DE102009023720A1; US7424834B2; EP2898965A1; EP1900954A1; EP0949435A3; CN103836089A; CN103180070A; EP2730811A4;  
EP1046441A3; EP2464537A4; WO9716270A1; WO2010139298A1; US9273771B2; EP2464537B1

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